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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,353	06/09/2005	Abolghassem Pakdaman	BIOR-OO6/01US	9541
	7590 02/02/200	•	EXAMINER	
RANKIN, HILL, PORTER & CLARK, LLP 925 EUCLID AVENUE, SUITE 700 CLEVELAND, OH 44115-1405		., 1111	BUSHEY, CHARLES S	
			ART UNIT	PAPER NUMBER
		·	1724	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

U.S. Patent and Trademark Office

Paper No(s)/Mail Date

3) Information Disclosure Statement(s) (PTO/SB/08)

Notice of Informal Patent Application

6) \_\_ Other: \_\_

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## Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A: Figs. 1 and 2;

Species B : Figs. 3 and 4;

Species C: Fig. 5;

Species D : Fig. 6;

Species E: Fig. 7

Species F: Fig. 8;

Species G: Fig. 9;

Species H: Fig. 10;

Species I : Fig. 11;

Species J: Fig. 12;

Species K: Fig. 13;

Species L: Fig. 14; and

Species M : Fig. 15.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

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subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. The claims are deemed to correspond to the species listed above in the following manner:

Species A: Claims 13 and 15;

Species B: Claims 13, 15, and 19;

Species C: Claims 13, 15, 16, and 19;

Species D : Claims 4, 16, and 19;

Species E : Claim 19;

Species F : Claim 19;

Species G: Claim 19;

Species H: Claim 19;

Species I : Claim 19;

Species J : Claim 19;

Species K : Claim 19;

Species L: Claims 13, 15, 17, and 19; and

Species M : Claim 19.

The following claims are generic: 1-3, 5-12, 14, 18, and 20.

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- The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Species A is directed to a batch apparatus, while the rest are directed to continuous devices; Species B is directed to an internal gas supply membrane within an open ended tube; Species C includes alternating bulged/narrowed container with gas supplied to the bulges; Species D includes alternating bulged/narrowed container with gas supplied to the narrowed portions; Species E is directed to open ended tubular container with gas supplied on opposite sides thereof; Species F is directed to multi-gas and multi-fluid inlets; Species G includes gas and fluid perforated inlets arranged perpendicular to a series of perforated walls; Species H has open inlet pipes arranged in the housing wall to inject gas and fluid into a series of perforated walls; Species I includes gas and fluid perforated inlets arranged parallel to a series of perforated walls; Species J includes a perforated tube arranged parallel to the series of perforated walls and an open inlet pipe arranged in the housing end wall to inject fluid into a series of perforated walls; Species K includes gas and fluid perforated inlets arranged perpendicular to one another within a housing having a series of perforated walls; Species L includes inlets having spinning means and check valves therein; and Species M includes multiple fluid inlets arranged within a housing and exterior to a perforated interior tube, the perforated interior tube having a gas inlet arranged therein.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1:143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the

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record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. 'Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-1153. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Scott Bushey Primary Examiner Art Unit 1724

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